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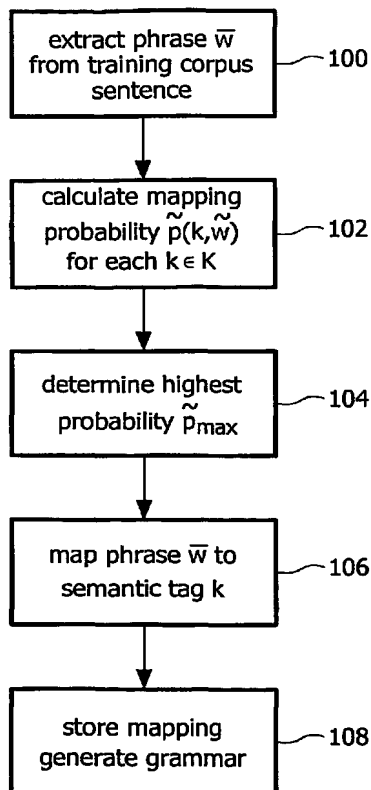
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(54) Title: ASSIGNMENT OF SEMANTIC TAGS TO PHRASES FOR GRAMMAR GENERATION



(57) Abstract: The present invention relates to a method, a system and a computer program product for mapping of semantic tags to phrases within a training corpus of weakly annotated sentences, thereby generating a grammar which can be applied to unknown sentences for the purpose of language understanding. The method is based on a probabilistic estimation that a given phrase is mapped to a semantic tag of a set of candidate semantic tags. The mapping and the generation of the grammar is performed according to a maximum mapping probability of a set of mapping probabilities of the given phrase and the set of candidate semantic tags. In particular, the determination of the mapping probability makes use of an expectation maximization algorithm.

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